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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,920	06/07/2006	Youichi Arai	060424	1867
23850 7590 09/12/2008 KRATZ, QUITOS & HANSON, LLP 1420 K Street, N.W. Suite 400 WASHINGTON, DC 20005			EXAMINER ZHANG, JUE	
				,
			MAIL DATE	DELIVERY MODE
			09/12/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) ARAI, YOUICHI 10/581.920 Office Action Summary Examiner Art Unit JUE ZHANG 2838 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. **Emergency of more more to account to the control of the con	Period fo	or Reply				
1) Responsive to communication(s) filed on 6/7/2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-5 is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 07 June 2006 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)·(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.	WHIC - Exter after - If NO - Failu Any	CHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Insigned ritims may be available under the provisions of 3 CFR 138(a). In no event, however, may a reply be timely filed SIX (b) MONTHS from the mailing date of this communication. Provided for reply is specified above, the maximum statution princid will apply and will expire SIX (b) MONTHS from the mailing date of this communication. The to reply within the set or extended period for reply will by statute, cause the application to become ABANDONED (35 U.S.C. § 133). The provided reply is considered by the Office later than there ombits after the mailing date of this communication, even if timely filed, may reduce any				
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Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/SE/OS) 5) Notice of Informal Patent Application. Paper No(s)/Mail Date 6/7/2006 6) Other: _ U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Action Summary Part of Paper No./Mail Date 20080825 Application/Control Number: 10/581,920 Page 2

Art Unit: 2838

DETAILED ACTION

Drawings

- 1. Figures Fig. 6A, and Fig. 7 should be designated by a legend such as --Prior Art-because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in
 compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid
 abandonment of the application. The replacement sheet(s) should be labeled "Replacement
 Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the
 drawing figures. If the changes are not accepted by the examiner, the applicant will be notified
 and informed of any required corrective action in the next Office action. The objection to the
 drawings will not be held in abevance.
- 2. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the examiner does not accept the changes, the applicant will be

Application/Control Number: 10/581,920

Art Unit: 2838

notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

Allowable Subject Matter

- Claims 1-5 are allowable over the prior art of record.
- The following is an examiner's statement of reasons for allowance:

For independent claims 1 and 5: No prior art uncovered anticipates or renders obvious applicant(s) claimed the limitations of a method and an apparatus for measuring an intrinsic resistance of a battery having:

measuring periodically a discharge current and a terminal voltage responding to the discharge current at a low rate discharge of the battery;

determining a first approximate expression of the terminal voltage with respect to the increasing discharge current and a second approximate expression of the terminal voltage with respect to the decreasing discharge current based on the measured discharge current and terminal voltage;

defining a range of the intrinsic resistance based on the first and second approximate expressions;

assuming a resistance in the range of the intrinsic resistance as a tentative intrinsic resistance:

determining a tentative maximum polarization time from the second approximate expression and the tentative intrinsic resistance; and

Application/Control Number: 10/581,920

Art Unit: 2838

determining the intrinsic resistance from two relational expressions including the intrinsic resistance, an intrinsic maximum polarization time and the tentative maximum polarization time.

Claims 2-4 are allowable for being dependent claims of the allowable independent claim

1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

This application is in condition for allowance except for the following formal matters as indicated above in Abstract, Drawing, and claims objects.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 25 USPQ 74, 453 O.G. 213, (Comm'r Pat. 1935).

A shortened statutory period for reply to this action is set to expire TWO MONTHS from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jue Zhang whose telephone number is (571) 270-1263. The examiner can normally be reached on M-TH 8:00AM-5:00PM EST, Other F 8:00AM-4:00PM EST

Art Unit: 2838

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm Ullah can be reached on 571-272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Akm Enayet Ullah/ Supervisory Patent Examiner, Art Unit 2838